

CLAIMS

1. A component mounting apparatus comprising:

a work conveyor-positioner unit (6) arranged on a
5 supporting base (2) for conveying and positioning a work (5) in
an X direction;

supporting frames (3, 3) arranged in a standing manner on
both ends of the supporting base (2) in a Y direction being
orthogonal to the X direction;

10 a plurality of Y-axis tables (10, 10) provided between
upper ends of the both supporting frames (3, 3) at an appropriate
interval;

X-axis tables (11) attached to movable portions (10d) of
the respective Y-axis tables (10); and

15 operating heads (12) attached to movable portions (11d) of
the X-axis tables (11) for performing operations with respect to
the work on the work conveyor-positioner unit (6),

wherein upper ends of the supporting frames (3, 3) are
located below eyes (E) of a worker (W).

20 2. The component mounting apparatus according to claim 1,
wherein the Y-axis table (10) includes a movable portion (10d) at
a lower part thereof, the X-axis table (11) includes a movable
portion (11d) at a lower part thereof, and the operating head
(12) is attached to a lower part of the movable portion (11d) of
25 the X-axis table (11).

3. The component mounting apparatus according to claim 1,
wherein a central portion of the X-axis table (11, 11) is

attached to the movable portion (10d) of the Y-axis table (10, 10), and the interval for arranging the Y-axis tables (10, 10) is set slightly longer than a length of the X-axis table (11).

4. The component mounting apparatus according to claim 1,
5 wherein the X-axis table (11) includes guide portions (11c) provided on both sides thereof to movably support the movable portion (11d) arranged at the lower part thereof, and a linear motor (11e) provided on an upper side of a traveling path of the movable portion (11d) and between the guide portions (11c) on the
10 both sides to drive and position the movable portion (11d).

5. The component mounting apparatus according to claim 1, wherein a component supplying unit (7) is arranged on one side or both sides in the Y direction on the supporting base (2), the operating head (12) includes an elevating mechanism (13) in a
15 position immediately below the movable portion (11d) of the X-axis table (11), and a nozzle unit (14) having a plurality of nozzles (17) for attaching components at the component supplying unit (7) by suction is disposed beside the elevating mechanism (13).

20 6. The component mounting apparatus according to claim 5, wherein the plurality of nozzles (17) are arranged in the nozzle unit (14) to be capable of performing attachment by suction simultaneously at the component supplying unit (7).

7. The component mounting apparatus according to claim 6,
25 wherein the nozzle unit (14) includes a selection mechanism (19) for selectively transmitting the elevating operation of the elevating mechanism (13) to a desired nozzle (17).